Monitoring Data Record

	COE Action ID:19982173
Stream Name: Charles Branch and UT to Charles	
City, County and other Location Information: Sha	
(Main St.) and Smith Ave.	
Date Construction Completed: Streambank Refor	restation completed January 2012
Monitoring Year: (1) of 5	
Ecoregion: 8 dig	it HUC unit 03040207
USGS Quad Name and Coordinates: Shallotte	N 33.97948 W 78.37703
Rosgen Classification:	
Length of Project: Enhancement 630 ft. and R	estoration 95 ft. Urban or Rural: <u>Urban</u>
Watershed Size:	
Monitoring DATA collected by: M. Green and J.	Young Date: <u>1/26/12</u>
Applicant Information:	
Name: NCDOT Roadside Environ	
Address: 1425 Rock Quarry Rd, Rale	•
-	Email address: mlgreen@ncdot.gov
Consultant Information:	
Name:	
Address:	
	Email address:
Project Status:	
Monitoring Level required by COE and DWQ	(404 nermit/401 Cert)· Level 1
The NCDOT plans to enhance approximately 6 stream as part of this project. Monitoring of the consist of Level 1 monitoring requirements. It (summer and winter) for each year of a five year Monitoring activities shall consist of reference prinspection of stream stability. The sites shall be bankfull events have occurred during this monitoring to the site occurred by the end of the five year monitoring processe further monitoring of the site. The two monitoring years.	of 530 feet and restore approximately 95 feet of stream enhancement and restoration areas shall Monitoring shall be performed twice annually ear period following completion of the work. Hotos, plant survival determination, and visual monitored for five years, provided at least two oring period. If two bankfull events have not period, the NCDOT may, at DWQ's discretion,
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If required to complete Level 3 monitoring <u>only</u> stop here; otherwise, complete section 2.

ADDITIONAL COMMENTS: Streambank reforestation was completed in January 2012. Black willow and silky dogwood live stakes were planted along the streambank and green ash, sycamore, and tulip poplar bareroot seedlings were planted in the buffer.

If required to complete Level 1 and Level 2 monitoring only stop here; otherwise, complete section 3.

Section 3. CHANNEL STABILITY

Visual Inspection: The entire stream project as well as each in-stream structure and bank stabilization/revetment structure must be evaluated and problems addressed.

Report on the visual inspection of channel stability. <u>Physical measurements of channel stability/morphology will not be required.</u> Include a discussion of any deviations from as-built and an evaluation of the significance of these deviations and whether they are indicative of a stabilizing or destabilizing situation.

Charles Branch and the UT to Charles Branch are stable for Year 1 Winter evaluation.					

Date	Station	Station	Station	Station	Station
Inspected	Number	Number	Number	Number	Number
Structure					
Type					
Is water					
piping					
through or					
around					
structure?					
Head cut or					
down cut					
present?					
Bank or scour					
erosion					
present?					
Other					
problems					
noted?					

Section 4. <u>DEBIT LEDGER</u>

The entire Charles Branch stream mitigation site was used for the U-3462 project to compensate for unavoidable stream impacts.

Charles Branch Stream Mitigation Site



Photo Point #1 (Upstream) – Charles Branch



Photo Point #2 (Upstream) – UT to Charles Branch

Charles Branch Stream Mitigation Site



Photo Point #2 (Downstream) – UT to Charles Branch



Photo Point #3 (Downstream) - Charles Branch

Charles Branch Stream Mitigation Site



Photo Point #4 (Upstream) – Charles Branch

Year 1 Winter – January 2012

CHARLES BRANCH PHOTO POINT LOCATIONS

